

# Net Ionic Equations

# ***Solubility's Not on the Table!***

Gases only slightly dissolve in water

Strong acids and bases dissolve in water

- Hydrochloric, Hydrobromic, Hydroiodic, Nitric, Sulfuric, Perchloric Acids
- Group I hydroxides (should be on your chart anyway)

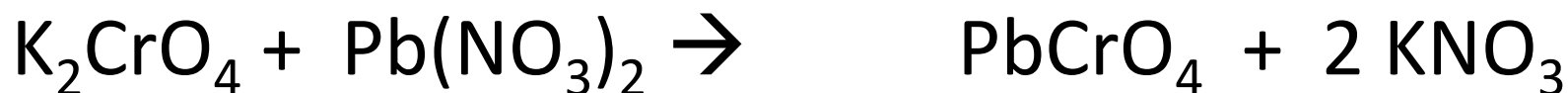
Water slightly dissolves in water! ( $\text{H}^+$  and  $\text{OH}^-$ )

There are other tables and rules than your table!



# ***Total Ionic Equations***

Molecular Equation:



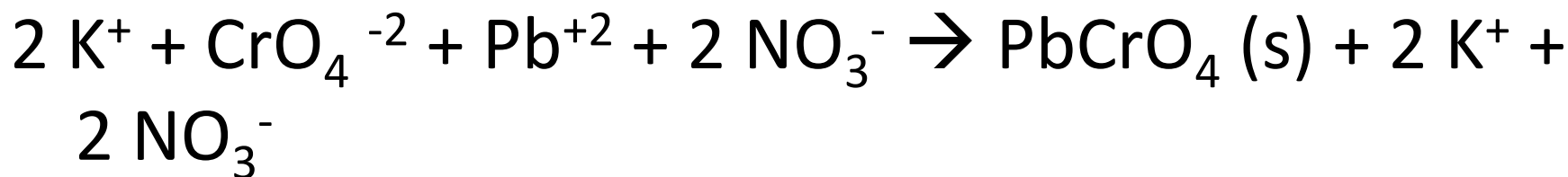
Soluble

Soluble

Insoluble

Soluble

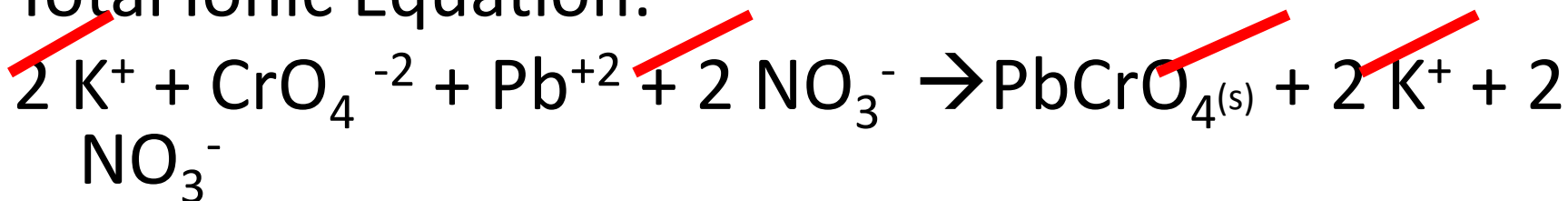
Total Ionic Equation:



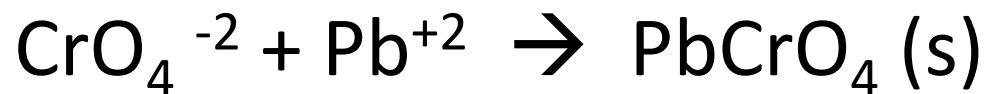
# ***Net Ionic Equations***

These are the same as total ionic equations, but you should cancel out ions that appear on BOTH sides of the equation

Total Ionic Equation:



Net Ionic Equation:



# ***Net Ionic Equations***

Try this one! Write the molecular, total ionic, and net ionic equations for this reaction: Silver nitrate reacts with Calcium Chloride in hot water.

Molecular:

Total Ionic:

Net Ionic:

# Bell Work

## 18-April-16

Start reading the Precipitation Reaction and Paint and record the procedures for “Making the Pigment”

Precipitation Reaction and Paint	
Procedures	
Paint Color:	
Making Pigment:	

Start “Making Pigment Procedures” about a  $\frac{1}{4}$  of the way down your pre-paper

# Bell Work

## 21-April-16

Please get goggles on, your printing  
lab pre lab, an d a pencil and go to  
your lab bench No Talking!!!!

# Agenda

## Precipitation Reactions and Painting Lab

### Objective:

You will know how to make a solution at a specified concentration in the laboratory



# Precipitation Rxns and Painting

You will make 1 of 3 pigments at your group

Lead is toxic if you inhale or consume it, so make sure you wash your hands before you leave the lab and do not touch your face, eyes, or mouth while working in the lab.

Place your filter and pigment in appropriate place to dry

Make sure to wash your hand before you finish

# Separating and Drying the Pigment

Fold filter paper and label with your name and period.

After you have decanted and filtered all of your pigment into the filter paper, rinse with propanone ( $\text{CH}_3)_2\text{CO}$  to dry (replaces remaining water)



# Home Work

Review:

Net ionic equations (from first two weeks of  
January)

Molarity

# Bell Work

## 19-April-16

When you have 100mL of a 0.5M solution of NaOH, how many mole of NaOH are present?

**If 450mL of water is added what is the new molarity?**

**How does temperature affect solubility of solids in liquids? Give an example.**

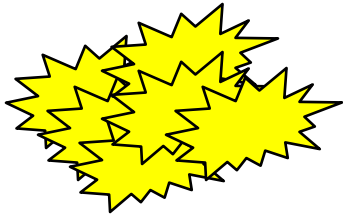
**Gasses in liquids? Give an example**



# Precipitation and Painting

## Making the oil paint:

Use plastic pipette to dispense  
linseed oil and mineral oil: Do Not  
Use Graduated Cylinder



Mix small amounts at a time of  
pigment, oil Use wooden splints  
to mix paint

If mixing colors use new Dixie cup



# When Finished

Dispose of Paint in solid waste bin in hood  
(entire Dixie cup, and wooded stir stick)

Staple painting to back wall to dry

Wash hands and complete post lab

Then finish Net Ionic Equations work sheet